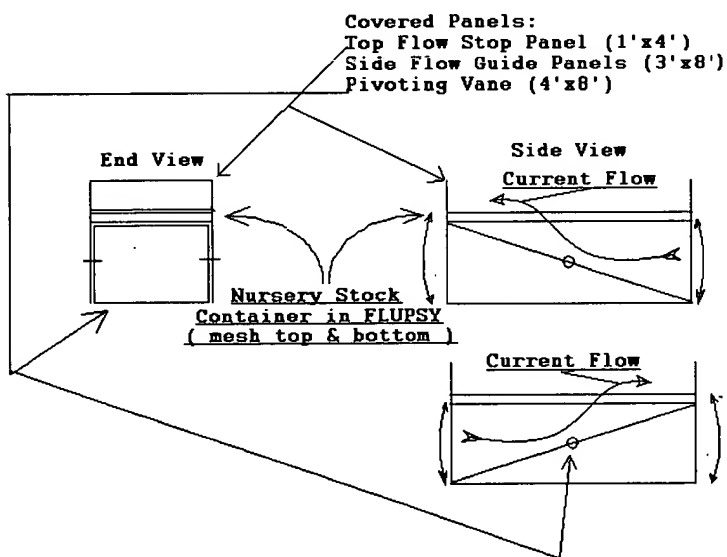




Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079

Page 105 of 125

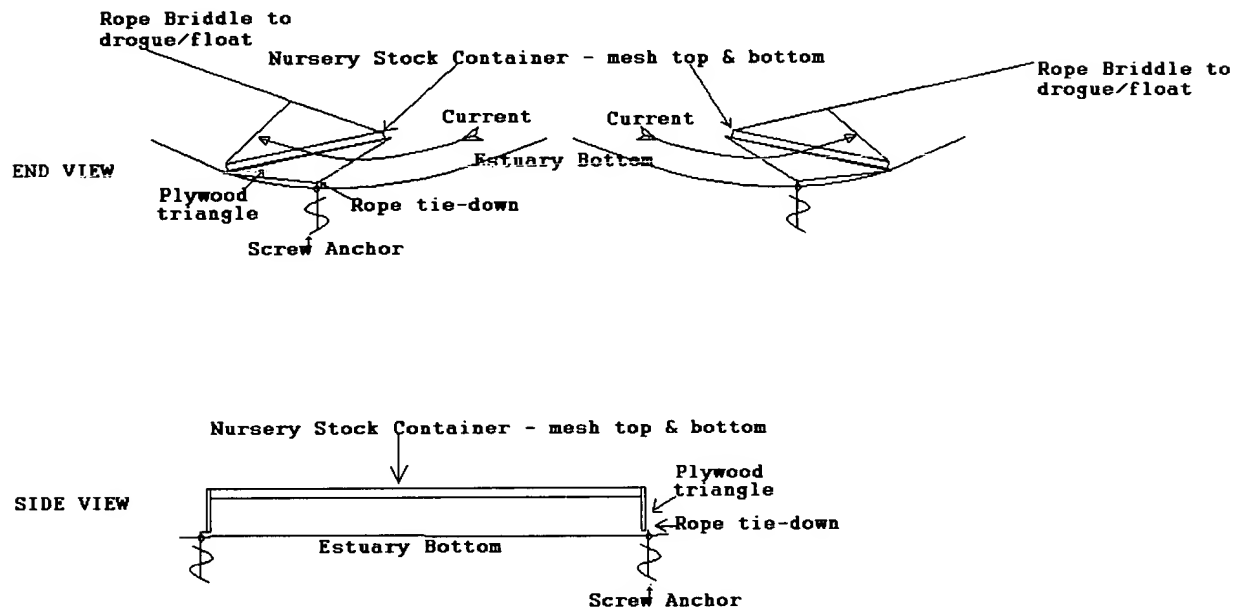
FIG. 1 – FLUPSY (Floating Upweller System)





Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079
Page 106 of 125

FIG. 2 – BUPSY (Bottom Upweller System)





Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079
Page 107 of 125

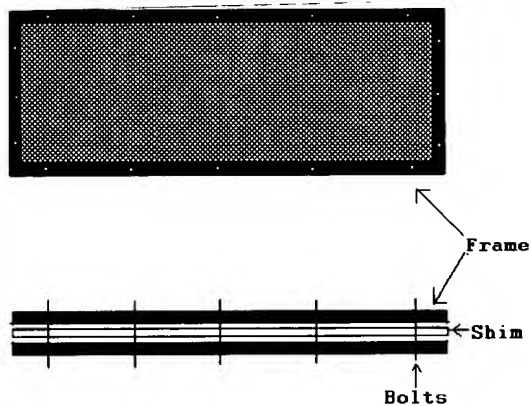
FIG. 3 - Nursery Stock Container

Provisional Patent Application

TOP VIEW - Two ridged frames, each covered with mesh (sized to retain shellfish), bolted together.

The frames are seperated with a combination of ridged and compressible (closed cell foam) shims so that the shellfish are gently but securely held by the assembly.

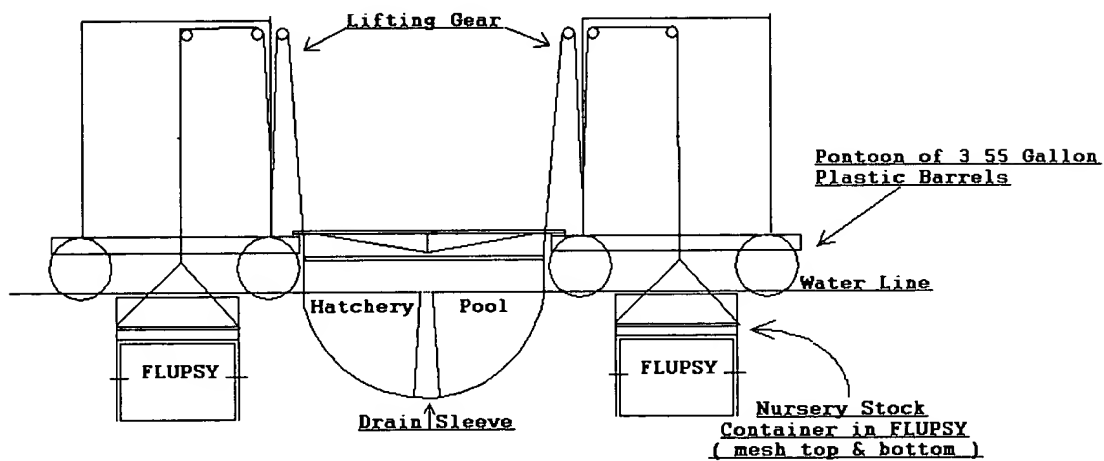
SIDE VIEW





Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079
Page 108 of 125

FIG. 4 - End View of
Spawntoon





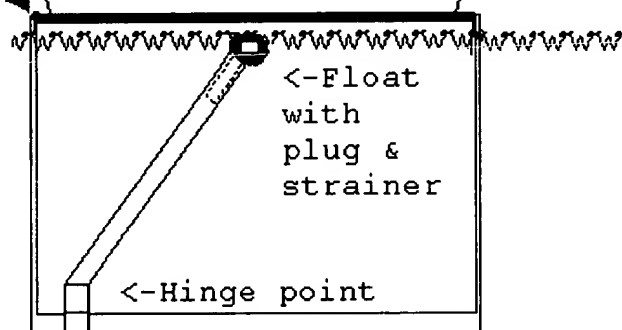
Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079

Page 109 of 125

FIG. 5 – Drain Device for floating hatchery live-well

Hatchery Live-Well

Filled with filtered water for spawn. The drain device is plugged. The ridged frame of the Hatchery Pool is either held above the water by ropes or supported by the floatation of the live-well itself.

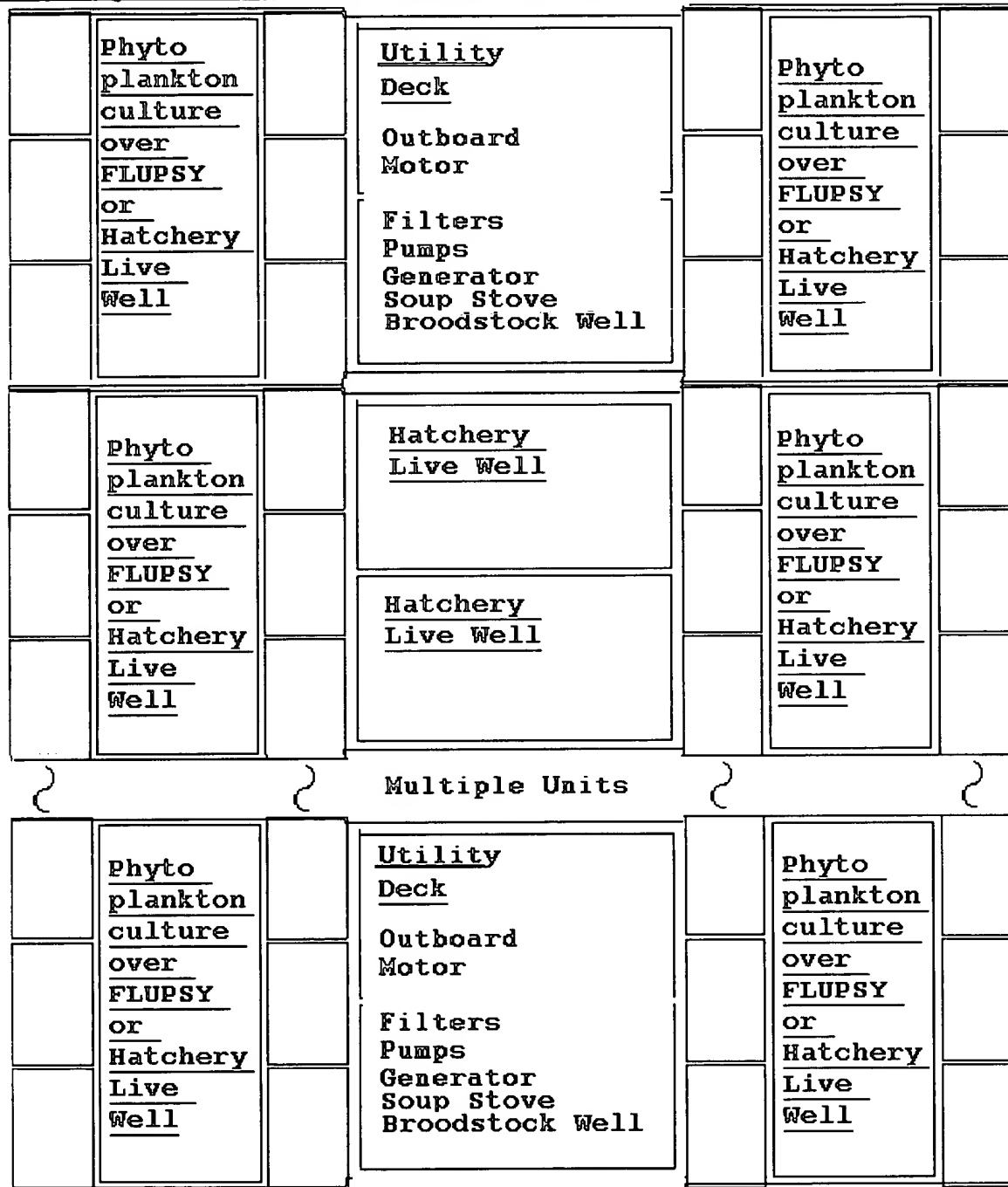




Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079

Page 110 of 125

FIG. 6 – SpawnToon Motorboat "The Mama Cass Ostrea"





Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079

Page 111 of 125

FIG. 7 – Phytoplankton Culture: Culture Bag w/fittings, Stretcher resting on two pontoons

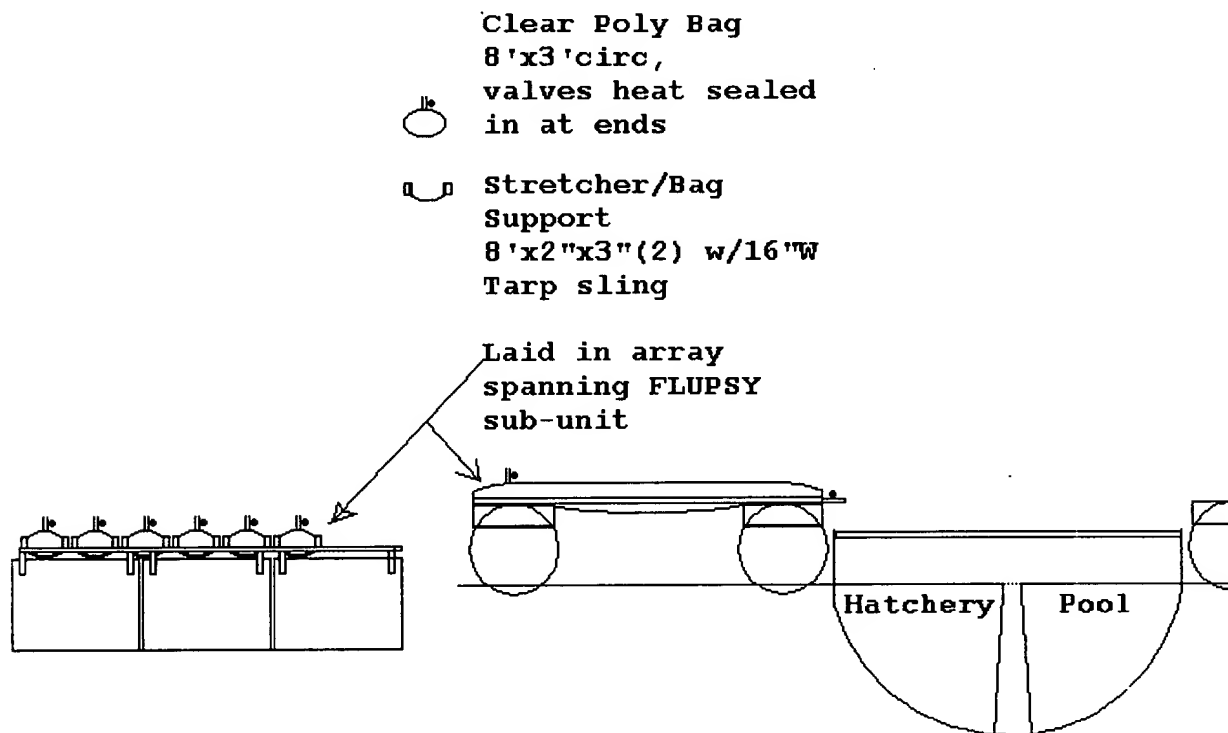
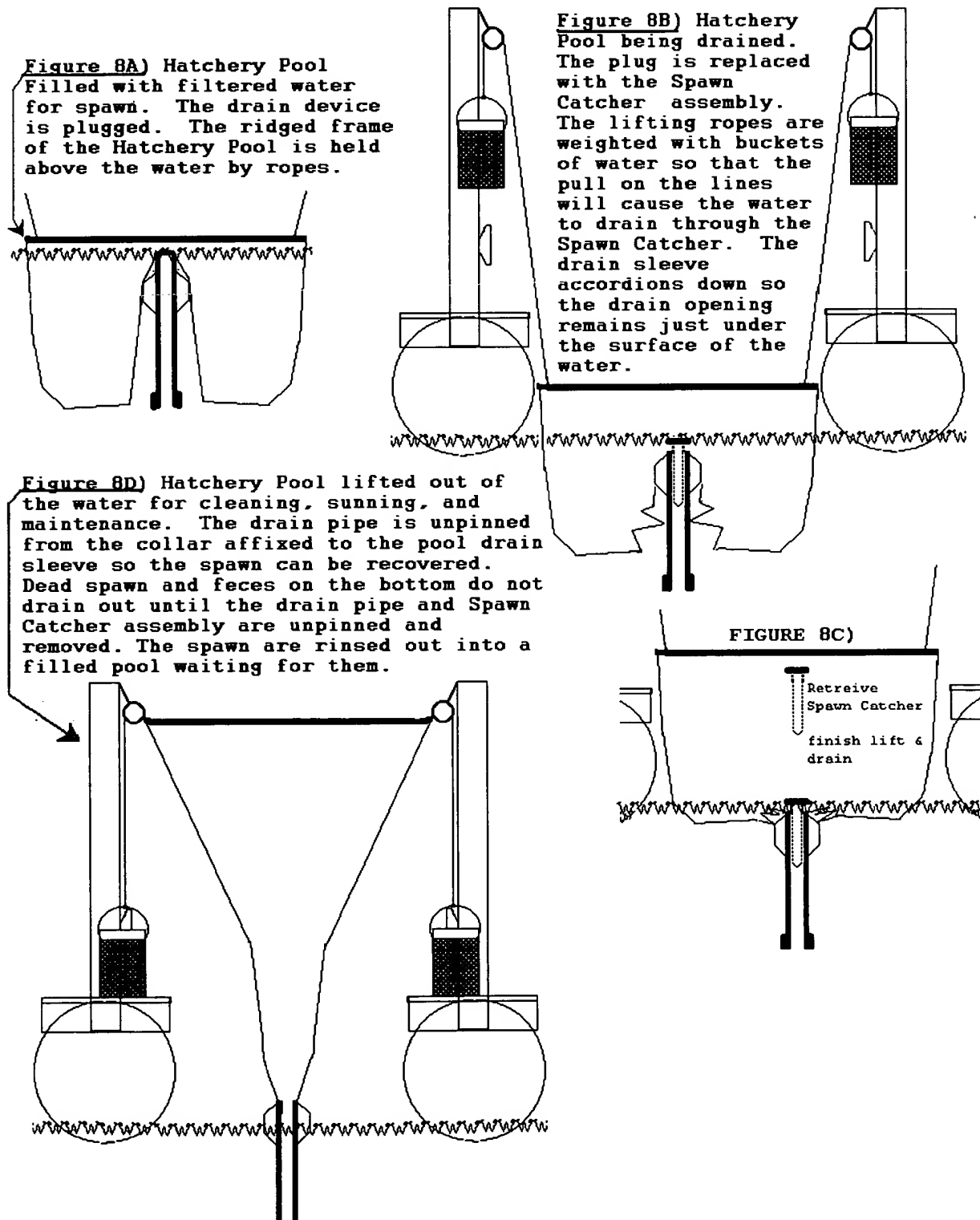


FIG. 8 – Hatchery Live Well Drain-Sleeve and Spawn Catcher





Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079

Page 113 of 125

FIG. 9 - Outboard Motor Mount (with DAVIS NOZZLE) slung underneath SpawnToon deck,
Profile of the Tubular Shroud surrounding the propeller and bolted to the cavitation plate

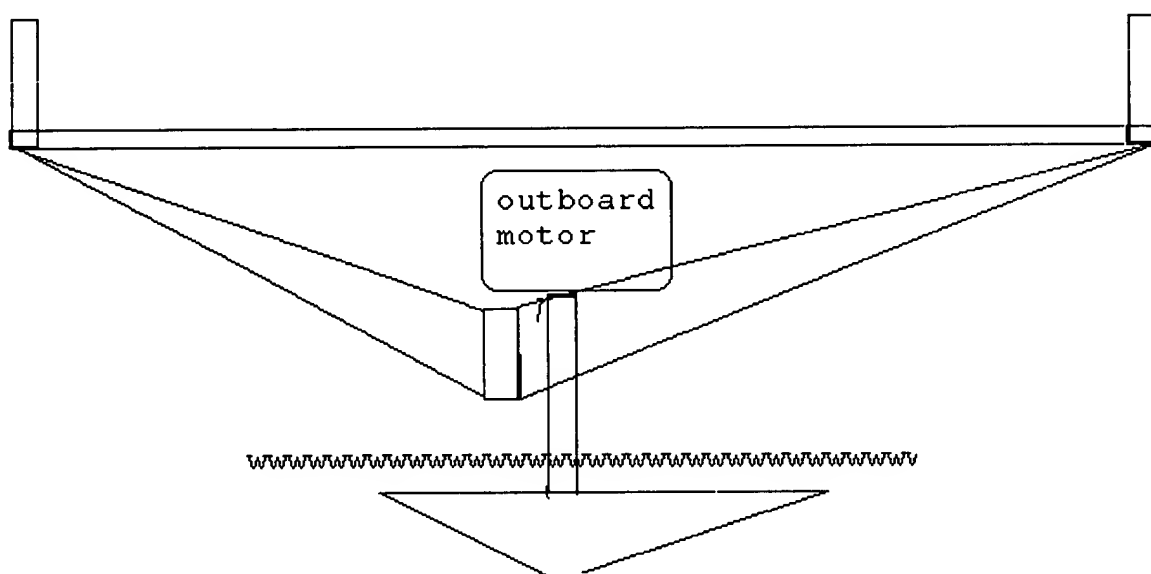
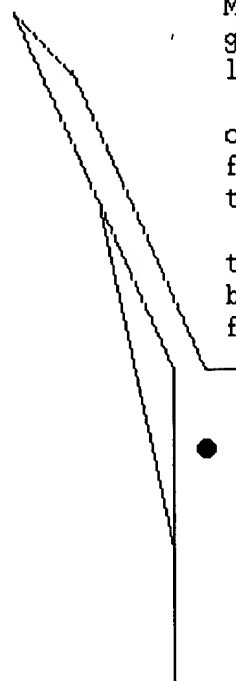




FIG. 10 - Davis Harpoon anchor

Figure 10) DAVIS HARPOON ANCHOR



Made from 2 inch dia.
galvanized pipe 36 inches
long

one half the pipe is cut
from one half the length
to form a trough

the trough portion is
bent outward and cut to
form a point on the end

a bolt for
attaching the
anchor line is
placed in tube

anchor is washed
into place much
like a piling or
bulkheading



Figure 11 A) TWWELLER : side view

Two Way Upweller/Downweller Shellfish Growing Device

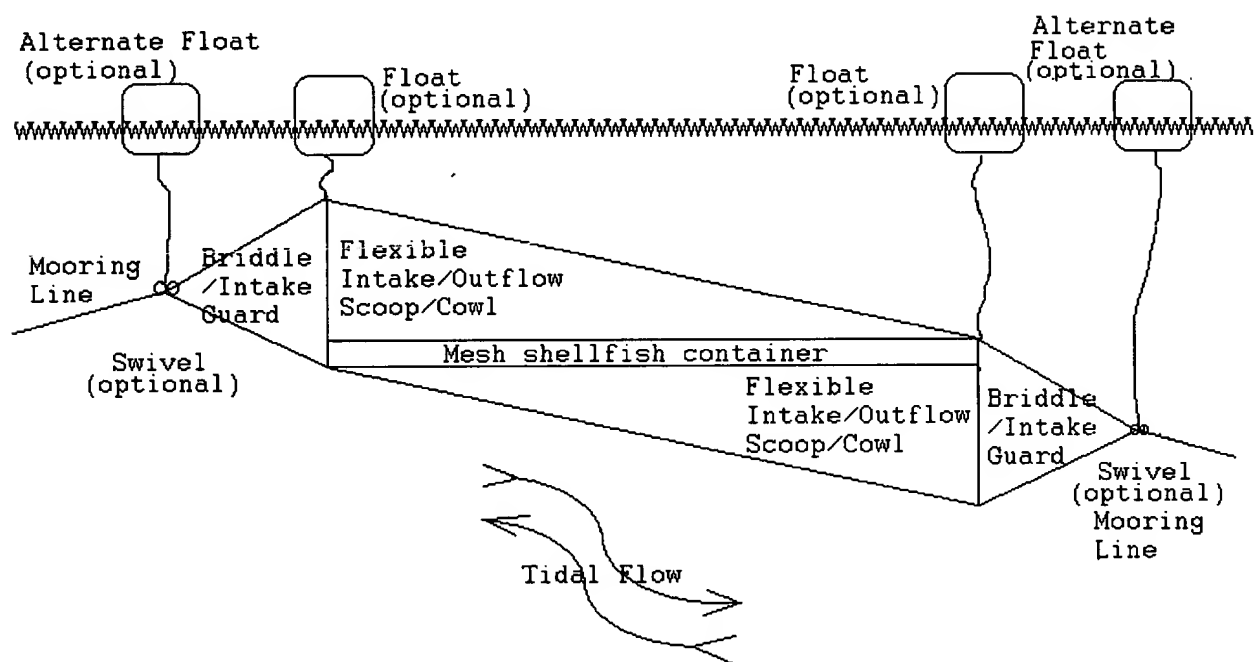


FIGURE 11 B) TWWELLER: end view

Rotating Option
on swiveled mooring

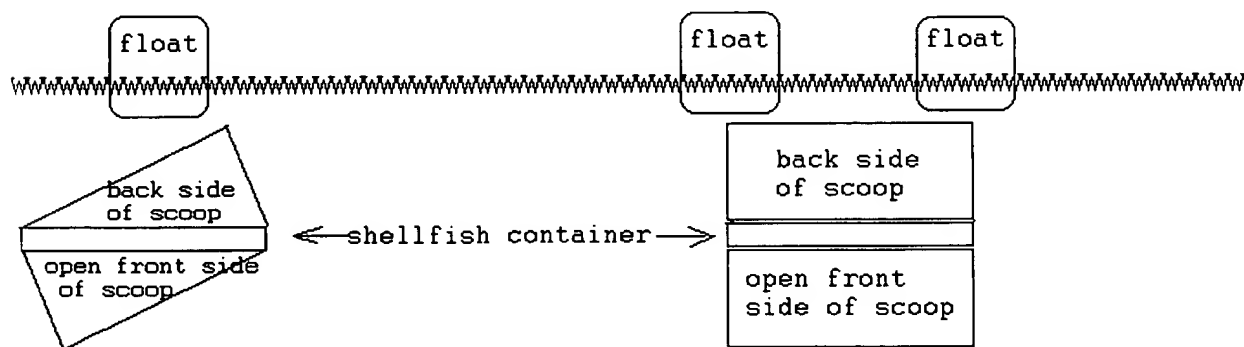


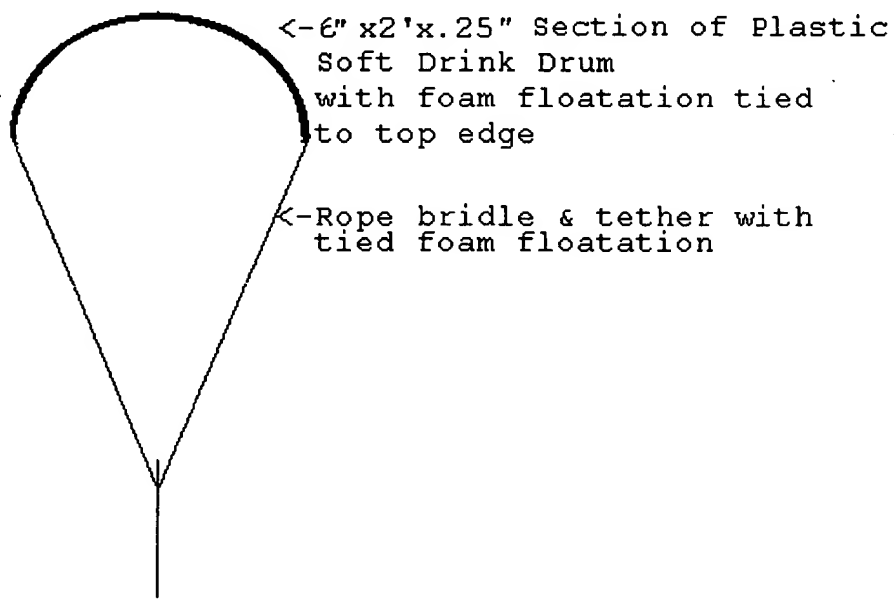
FIG. 11 - TWWELLER



Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079
Page 116 of 125

FIG. 12 – Float-Drogue

Figure 12) Float-Drogue

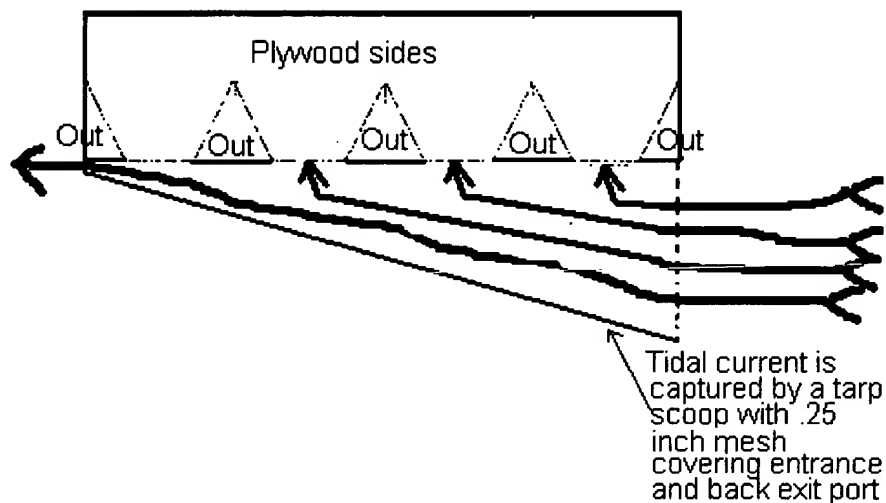




Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079

Page 117 of 125

FIG. 13 Grounding Tolerant FLUPSY scoop of CLAIM 9 servicing a crenellated Marsupium.
Side View

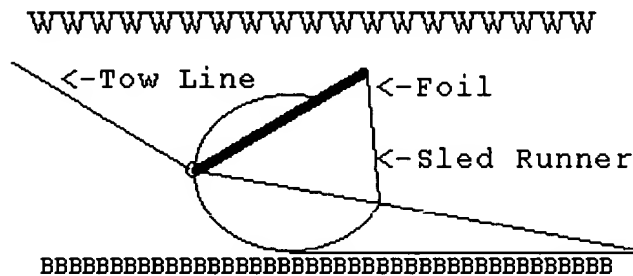


Water out through triangular ports in the side
after passing through a 38 micron mesh crenallation panel
Plywood panel separates inbound water from outbound
water in the crenallation



Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079
Page 118 of 125

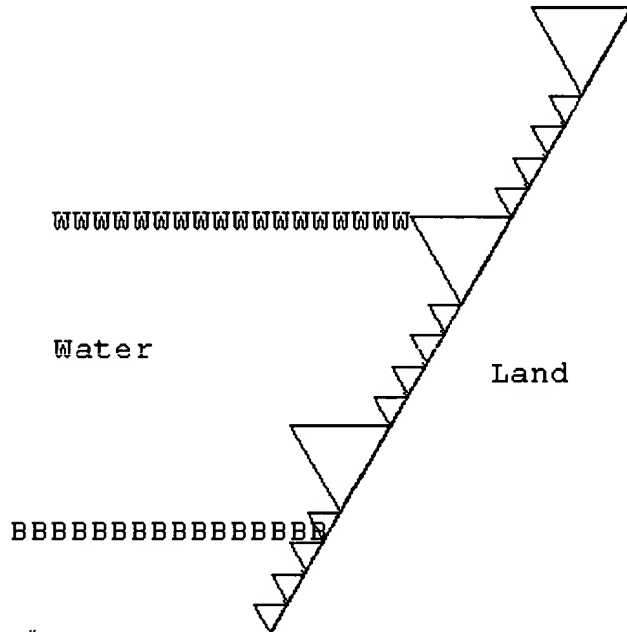
FIG. 14 – Resuspension Drag Foil of CLAIM 17





Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079
Page 119 of 125

FIG. 15 – Waffle Bulkhead



[illegible]


```

      ^
      |
      |  Floatation
      |  Light Strongback & Clasp
      |  v
  <-Current<-      <-Current<-
  Mesh Shellfish Envelope->  <-Sand Bag Anchor
  BBBBBBBBBBBBBBBBBBBBBBBB BB BBBBBBBBBBBBBBBB
      |
      |  Scour Pit

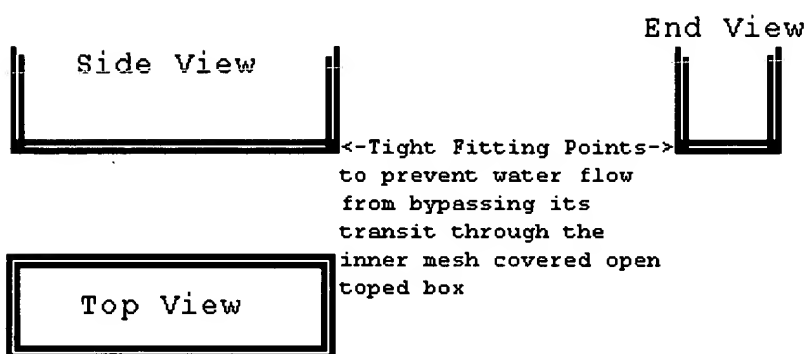
```



Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079

Page 122 of 125

FIG. 18 – Shellfish Hatchery-Nursery Container of CLAIM 16: Set of two nested open top
Self Cleaning screen set of CLAIM 7 used by the Marsupium

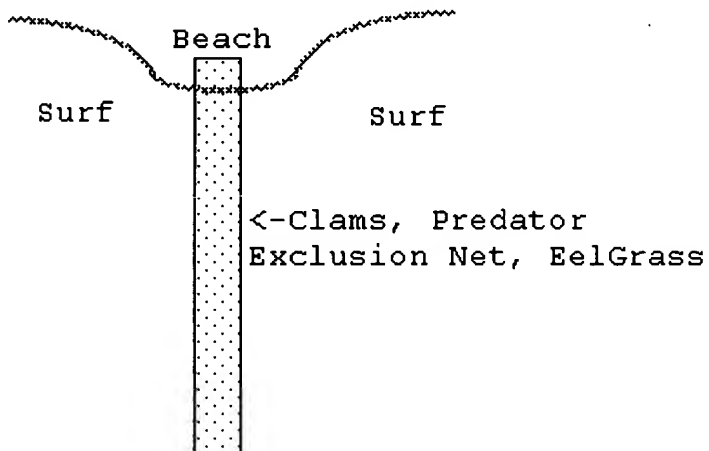




Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079

Page 123 of 125

FIG. 19 – Shellfish: SAV Polyculture Groin and Breakwater Substitute of CLAIM 18





Responsive Amendment to Application for Patent (09/891,757) on
"An Integrated System For Shellfish Production"
4/30/03 9:52 AM Russell P Davis (757)729-1079

Page 124 of 125

FIG. 20 Foil Array of CLAIM 10 used for current powered directional sediment
Transport

